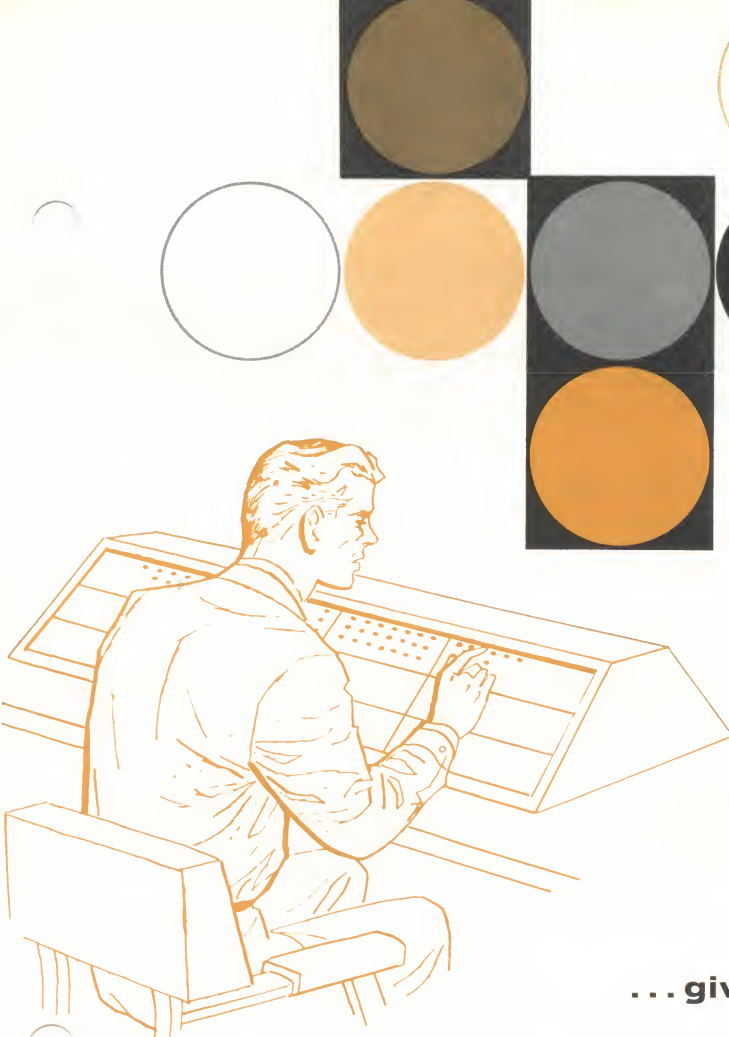




CUSTOM DESIGNED

OR STANDARD



INDICATING DEVICES

... give you precisely the indicator you need!

TEC originated and developed the concept of transistorized indicators and has pioneered the development of a wide range of modern indicating devices—both conventional and transistorized. Units in TEC's basic line are electrically designed to cover the most commonly used signal and supply voltages encountered in equipment using indicators. Some units are specifically tailored to meet battery and aircraft supply voltages, for example. Others meet the more complex requirements encountered in the broad range of signal and supply voltages available in computer, data processing or control systems.

However, design engineers frequently need an indicator designed specifically to meet unique circuitry requirements and high reliability levels for today's

sophisticated semiconductor systems including integrated circuit systems. TEC specializes in this area and has designed several hundreds of custom-designed indicators for specific applications. While these units are custom designed, their cost and delivery schedule usually remains very close to standard Tec-Lite Indicators. TEC achieves this design versatility at minimum cost because its unique design and production facilities have been set specifically for this purpose. Basic product designs as well as custom designs utilize similar components.

A majority of the TEC engineering staff comes from the computer industry and are thoroughly versed in the needs of this industry.

"Transistorized" DIGITAL READOUT Offers Optional Decoder Functions

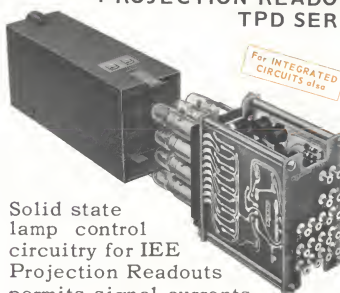


TNR
SERIES

Compact readout using rectangular NIXIE® tube mounts on 1" centers. Self contained transistorized drivers control numeral display from signals as small as two volts. Circuitry options include binary to decimal or octal converters, counter and memory. Optional bezel contains Polaroid® filter to increase readability. Popular terminal types available. Size 1" w x 1 3/4" high, less than 3" deep.

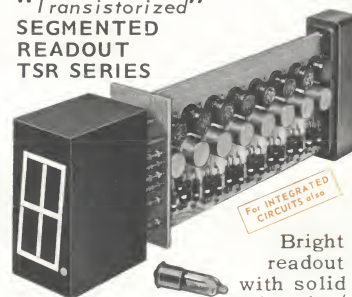
® Burroughs Corp.
® Polaroid Corp.

"Transistorized" DISPLAY DRIVER COMBINES WITH PROJECTION READOUT TPD SERIES



Solid state lamp control circuitry for IEE Projection Readouts permits signal currents as low as 1ma to switch 6, 12, or 28 volt incandescent lamps on and off. TPD-10 provides decimal readout from decimal input; TPD-20 and TPD-30 provide decimal readout from 4-wire and 8-wire BCD input signals respectively. Memory available.

"Transistorized" SEGMENTED READOUT TSR SERIES



Bright readout with solid state decoder/driver circuitry controls neon or incandescent lamps with signals as small as 2 volts. BCD or octal converters and memory also available. "No-gap", 1.200"H. characters produce easily readable numerals. Two-inch high unit mounts on 1-inch centers. Displays 0 through 9 and + -.

TEC-LITE indicators are protected by one or more of the following patents: U.S. Pat. Nos. 2,985,874, 3,041,499, 3,116,480; Australian Pat. Nos. 244,756; Belgian Pat. Nos. 604,246 and 637,379; Canadian Pat. No. 686,506; French Pat. Nos. 1,291,911; 1,365,693; Italian Pat. No. 674,414; Swiss Pat. No. 376,541; British and German patents pending.

select from ...
a wide range of standard

TEC LITE INDICATORS

transistorized or conventional



"Transistorized" BUTTON-LITE AND MINI-LITE INDICATOR
MTL SERIES TBL SERIES

Long life neon lamp indicator in both series is transistor-controlled from signals as low as 2 volts; high voltages are confined to panel. Both offer a range of basic models to meet typical signal and supply voltages and are contained in 9/16" diameter body that mounts on 19/32" centers. MTL Series, Indicator only. TBL Series, Indicator with N.O. or N.C. isolated switch.



TRANSISTOR CONTROLLED INCANDESCENT LITE AND BUTTON-LITE
TIL SERIES TIB SERIES

Lamp is internally switched on and off by signals as low as .3ma. Ten models operate from popular signal and supply levels. Use replaceable midget flange base lamps. TIB Series combines indicator circuit and isolated momentary switch with N.O., N.C., or N.O. and/or N.C. options. TIL Series, Indicator only. Both mount in 3/8" holes on 19/32" centers.



"Transistorized" LOW VOLTAGE NEON INDICATOR AND BUTTON-LITE
LVN SERIES LVB SERIES

Internal circuitry steps up low voltage DC supply to high voltage AC that fires the neon lamp. Long life, low power drain indicators operate from a choice of supplies ranging from 3 to 24 VDC. May also be controlled with signals as small as 2 volts. LVB Series adds isolated N.O., N.C., or N.O. and/or N.C. switch option. Both mount in 3/8" holes on 19/32" centers.



SOLID STATE MEMO-LITE®
TML SERIES

One time pulses as small as 2 microseconds and 2 volts turn on indicator. Bright, incandescent lamp remains on when signal is removed. Interruption of supply or optional press-test, reset control extinguishes replaceable lamp. Integral, isolated N.O., N.C., or N.O. and/or N.C. switch is also available and actuated by pressing lens. Mounts in 3/8" hole on 19/32" centers.



ALTERNATE ACTION SWITCHES WITH INDICATOR
ABL SERIES ABS SERIES

Double break switch controls two circuits. When one circuit is closed the other opens—holds this status until switch is actuated again. SPDT also available. Both series rated for dry circuits and loads to 100 ma at 120VAC. ABL adds indicator with replaceable neon or incandescent lamp. ABS switch only. Both mount in 3/8" hole on 19/32" centers.



REPLACEABLE LAMP BUTTON-LITE
RBL SERIES

An SPDT snap-action switch and indicator with replaceable neon or incandescent lamp is combined in RBL-1 and RBL-2 Series. RBL-1 switch rated to 5 amps. RBL-2 dry circuits and currents to 1 amp. RBL-3 combines lamp with SPST N.O. momentary switch rated at 100 ma at 120 VAC. RBL-1 and RBL-2 mount on 19/32" centers, RBL-3 on 9/16" centers.



MINIATURE BUTTON-LITES AND BUTTON SWITCHES
MBL SERIES MBS SERIES

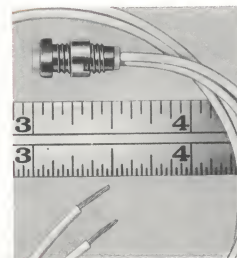
MBL Series combines neon or incandescent lamp indicator and isolated independent switch. MBS Series has momentary contact pushbutton switch only. Both Series offer A and B Form contact switches (AB also on MBS Series) with life exceeding 500,000 operations at 100 ma current rating. Body, 1/2" diameter mounts in 3/8" hole on 9/16" centers—projects back 7/8".



RECTANGULAR SWITCH LITE
RSL SERIES

SPST normally open switch and indicator; two normally open switches, DPST, no indicator; or indicator only are available in this .870 x 1" x 1.297" deep module. Replaceable neon or incandescent lamps and 14 lens colors offered. Unit mounts horizontally or vertically by pushing into 1/8" panel from front. Switch rated at 100ma at 120 VAC, non-inductive.

SUBMINIATURE DISPLAY LITE WITH INCANDESCENT LAMP



SDL SERIES

Use where panel space is limited or where indications must be intentionally small. Mounts on 1/4" centers horizontally or vertically. Uses rugged T-1 type incandescent lamp with design life up to 100,000 hours. Choice of connector or wire lead terminals; 13 lens colors; black or clear .240" diameter anodized aluminum body.



MDL SERIES



MINIATURE INDICATOR LITES
FML SERIES

Two terminal neon or incandescent lamped indicators offer choice of 13 lens colors and 4 lens shapes and internal resistor. 1/2" diameter, MDL Series mounts in 3/8" hole on 9/16" centers. FML Series nylon collet body slips into panel from front, is



MCL SERIES

locked in place with lens; .375 hole on 1/2" centers in 1/8" panel. MCL Series has one piece plastic body with square or round display lens; Wire lead or .040 pin terminals. Clip mounts in .312 hole on 3/8" centers.



LPS SERIES
LITE POWER SUPPLY

Compact unit (3 5/8"W x 6 1/4"L x 3 1/2"H) is expressly designed to provide supply and bias voltages for TEC-LITE Transistorized Indicators and standard neon indicators. Drives several hundred lites from 105-130 VAC.

LENS COLOR:	1-Translucent Red*	4-Translucent Yellow*	7-Clear	11-Translucent Orange*	14-Transparent Yellow
	2-Transparent Red	5-Translucent Green*	8-Transparent White	12-Transparent Green*	*Not Recommended
	3-Transparent Amber	6-Translucent Blue*	9-Translucent White*	13-Transparent Blue*	For Neon Lamps

..... or detail your requirements for
CUSTOM DESIGNED **INDICATORS READOUTS** here...

**SPECIFICATIONS for NON-STANDARD*
TEC-LITE INDICATORS AND READOUTS**

COMPANY _____ DATE _____
DIVISION OR DEPT. _____ PHONE _____ EXT _____
ADDRESS _____
CITY _____ STATE _____ ZIP _____
ENGINEER _____ BUYER _____
APPLICATION _____ MILITARY ☐
COMMERCIAL ☐
*This is a variation of a standard _____ Series TEC-LITE

ELECTRICAL SPECIFICATIONS

Supply Voltages Available $\frac{AC}{DC}$ ☐ _____ V $\pm$ _____ %; _____ V $\pm$ _____ %; _____ V $\pm$ _____ %; _____ V $\pm$ _____ %
Bias Voltages Available _____ V $\pm$ _____ %; _____ V $\pm$ _____ %; _____ V $\pm$ _____ %; _____ V $\pm$ _____ %; _____ V $\pm$ _____ %
Signal Voltage ☐Specify Polarity and Tolerance or Range : ON _____ OFF _____
Signal Current ☐Specify Tolerance or Range : ON _____ OFF _____
Input Impedance _____ Ohms
NOTE: If electrical specifications above are from Integrated Circuits (I-C) Please specify I-C Manufacturer, I-C Model Number,
I-C Supply Voltage(s) _____

INDICATORS ONLY

LAMP TYPE: Neon _____ Incandescent _____ Replaceable ☐ Yes ☐ No ☐
(Specify lamp number if type critical)
SWITCH FUNCTION (if applicable): Contacts ☐ Normally Open ☐ Normally Closed _____ Other _____
Other electrical requirements (State requirements on reverse side)

READOUTS ONLY

Signal Logic CODE:
☐ Decimal to Decimal
☐ Binary to Decimal
☐ Binary to Octal
☐ Other: (Describe on reverse side)
☐ Memory custom designed: (State requirements on reverse side)
TYPE OF INPUT
☐ 10 WIRE
☐ 8 WIRE ☐ 4 WIRE (SINGLE ENDED)
☐ 6 WIRE ☐ 3 WIRE (SINGLE ENDED)

MECHANICAL SPECIFICATIONS

INDICATORS ONLY

LENSES

COLOR: See Catalog - Specify standard colors for neon or incandescent lamps - or indicate other non-standard color desired:

SHAPE: ☐ Flat Top ☐ Spherical not available in Button Lites
Spherical

HOT STAMPED LEGENDS: Up to 3 characters can be embossed on flat top lens faces. Specify legends desired on prototype. See TEC-DATA Sheet 108.

Quantity _____ Legend $\uparrow\uparrow$; Quantity _____ Legend $\uparrow\uparrow$;

Quantity _____ Legend $\uparrow\uparrow$; Quantity _____ Legend $\uparrow\uparrow$;

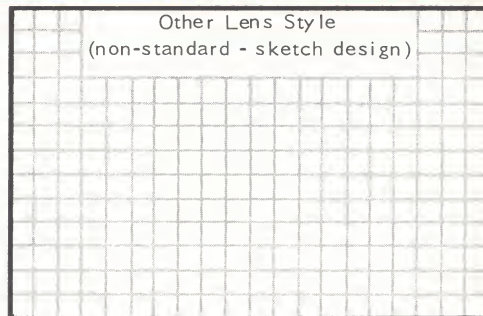
FOR PANEL THICKNESS: _____ inch NOTE: Tooling setup for 1/16 inch to 1/8 inch and 9/64 to 3/16 inch panel thickness - others non-standard

Body dimensions same as similar catalog item, but length may vary: state max. acceptable back panel length w/terminals

READOUTS ONLY

Dimensions same as catalog item but selection of electrical options will increase overall length. If any dimension is critical specify maximum acceptable dimensions _____

(over)



☐ Taper Pin Receptacle
☐ Turret Lug
☐ Wire-Wrap
☐ Solder Lug/Taper Tab
☐ Other _____

☐ Taper Pin/Turret
☐ Wire-Wrap
☐ Solder Lug/Taper Lab
☐ Other _____

FINISH: Anodize ☐ Other _____
(non-standard)

COLOR: Black ☐ Other _____
(non-standard)

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